

Title (en)  
CAMERA MODULE INCLUDING MAGNETIC FIXING POSITION OF LENS USING MAGNETIC FORCE AND ELECTRONIC DEVICE FOR THE SAME

Title (de)  
KAMERAMODUL MIT MAGNETISCHER FIXIERPOSITION DER LINSE MIT MAGNETKRAFT UND ELEKTRONISCHE VORRICHTUNG DAFÜR

Title (fr)  
MODULE DE CAMÉRA COMPRENANT UNE FIXATION MAGNÉTIQUE DE LA POSITION DE L'OBJECTIF UTILISANT UNE FORCE MAGNÉTIQUE ET DISPOSITIF ÉLECTRONIQUE ASSOCIÉ

Publication  
**EP 3462222 C0 20230927 (EN)**

Application  
**EP 18197729 A 20180928**

Priority  
KR 20170126983 A 20170929

Abstract (en)  
[origin: EP3462222A1] A camera module includes a lens unit including one or more lenses, wherein at least some of the one or more lenses are movable along a path corresponding to optical axes of the one or more lenses, and a driving unit to move the at least some lenses along the path. The driving unit includes a magnet physically connected with the at least some lenses, a coil to form a magnetic field such that the magnet moves along the path, and a magnetic substance disposed on one surface of the coil opposite to another surface of the coil, which is adjacent to the magnet. The magnetic substance adapts the at least some lenses, which are physically connected with the magnet, to a specified position of the path by using magnetic force between the magnet and the magnetic substance, which is formed as the coil approaches the magnet.

IPC 8 full level  
**G02B 13/00** (2006.01); **G02B 27/64** (2006.01); **G03B 3/10** (2021.01); **G03B 5/00** (2021.01); **G03B 5/02** (2021.01); **G03B 17/17** (2021.01); **H04N 23/57** (2023.01); **H04N 23/68** (2023.01)

CPC (source: CN EP KR US)  
**G02B 7/023** (2013.01 - KR); **G02B 7/09** (2013.01 - CN); **G02B 7/102** (2013.01 - CN); **G02B 7/28** (2013.01 - KR); **G02B 13/009** (2013.01 - EP US); **G02B 27/646** (2013.01 - EP US); **G03B 3/10** (2013.01 - EP US); **G03B 5/00** (2013.01 - EP US); **G03B 5/02** (2013.01 - EP KR US); **G03B 13/36** (2013.01 - CN KR US); **G03B 17/12** (2013.01 - KR); **G03B 17/17** (2013.01 - EP US); **G03B 30/00** (2021.01 - KR); **H02K 11/21** (2016.01 - US); **H02K 41/0354** (2013.01 - CN); **H02K 41/0356** (2013.01 - US); **H04N 23/57** (2023.01 - EP US); **H04N 23/6812** (2023.01 - EP KR US); **H04N 23/685** (2023.01 - EP US); **H04N 23/687** (2023.01 - EP KR US); **G03B 2205/0007** (2013.01 - KR); **G03B 2205/0046** (2013.01 - EP US); **G03B 2205/0069** (2013.01 - EP KR US); **G03B 2217/005** (2013.01 - EP US)

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